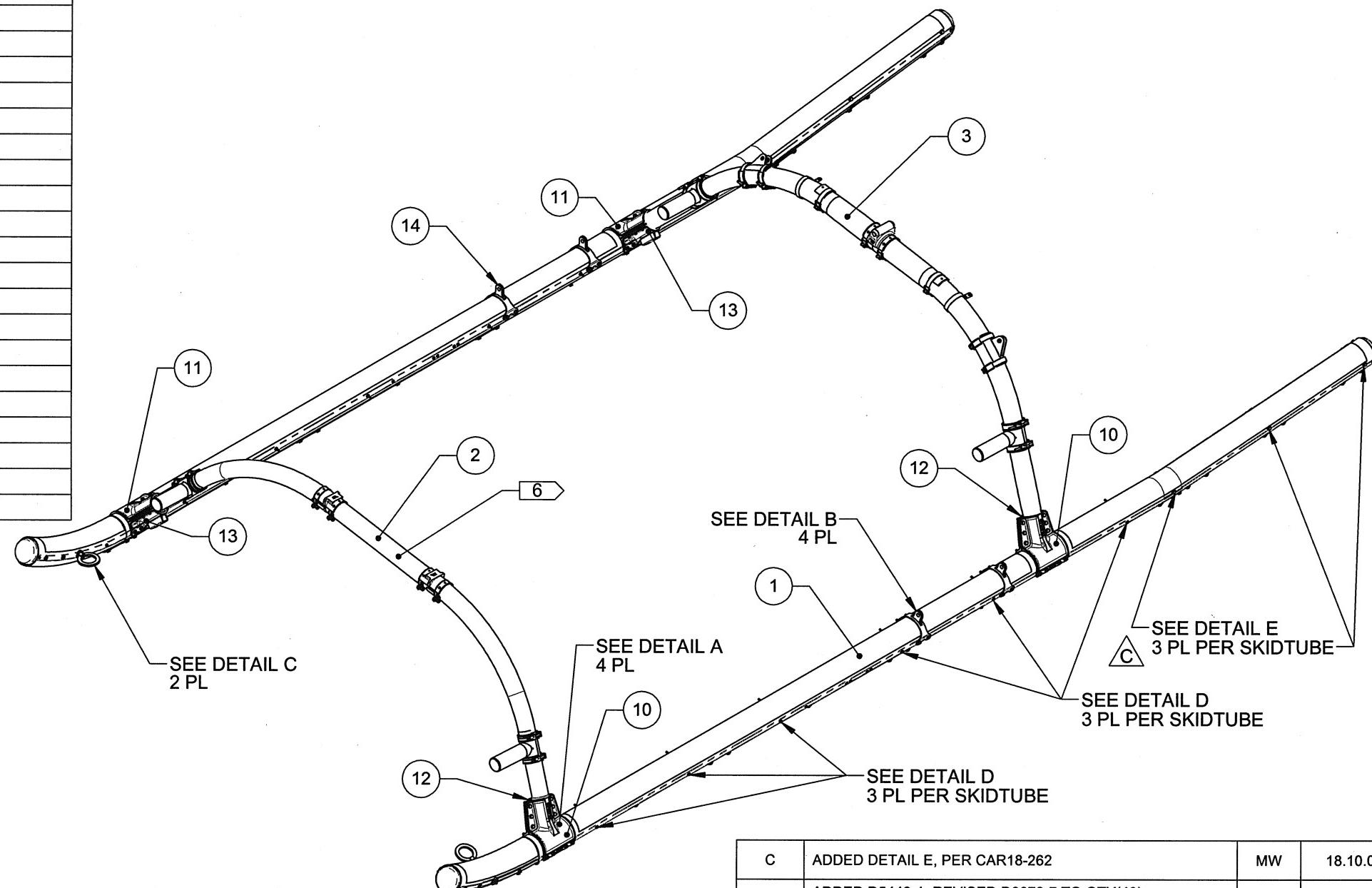


| ITEM | QTY  | P/N           | DESCRIPTION                               |
|------|------|---------------|---|
|      | -033 |               |   |
|      | X    | D119-796-033  | FLOAT GEAR WITH REINFORCED WEARPLATES     |
| 1    | 2    | D119-646-143  | FLOAT SKIDTUBE WITH REINFORCED WEARPLATES |
| 2    | 1    | D119-796-151  | XTUBE ASSY (AW119 MKII FWD)               |
| 3    | 1    | D119-796-251  | XTUBE ASSY (AW119 MKII AFT)               |
| 4    | 48   | D2652         | BUSHING                                   |
| 5    | 2    | D3407-041     | TOW RING                                  |
| 6    | 4    | D3417-5       | WASHER                                    |
| 7    | 2    | D3456-1       | WASHER                                    |
| 8    | 48   | D3672-3       | PHENOLIC WASHER                           |
| 9    | 40   | D3672-7       | PHENOLIC WASHER                           |
| 10   | 2    | D3883-1       | SADDLE, OUTBOARD LH                       |
| 11   | 2    | D3883-2       | SADDLE, OUTBOARD RH                       |
| 12   | 2    | D3884-1       | SADDLE, INBOARD LH                        |
| 13   | 2    | D3884-2       | SADDLE, INBOARD RH                        |
| 14   | 4    | D3886-041     | LUG ASSEMBLY                              |
| 15   | 4    | D5449-1       | FLOAT SADDLE WASHER                       |
| 16   | 12   | AN3C45A       | BOLT                                      |
| 17   | 8    | AN3C46A       | BOLT                                      |
| 18   | 16   | AN3C50A       | BOLT                                      |
| 19   | 24   | AN4C6A        | BOLT                                      |
| 20   | 36   | MS21043-3     | NUT, SELF-LOCKING                         |
| 21   | 26   | MS21043-4     | NUT, SELF-LOCKING                         |
| 22   | 8    | MS21043-5     | NUT, SELF-LOCKING                         |
| 23   | 8    | MS21250-05048 | BOLT                                      |
| 24   | 48   | NAS1149C0332R | WASHER                                    |
| 25   | 48   | NAS1149C0432R | WASHER                                    |
| 26   | 8    | NAS1149C0532R | WASHER                                    |

D119-796-033 FLOAT GEAR WITH REINFORCED WEARPLATES

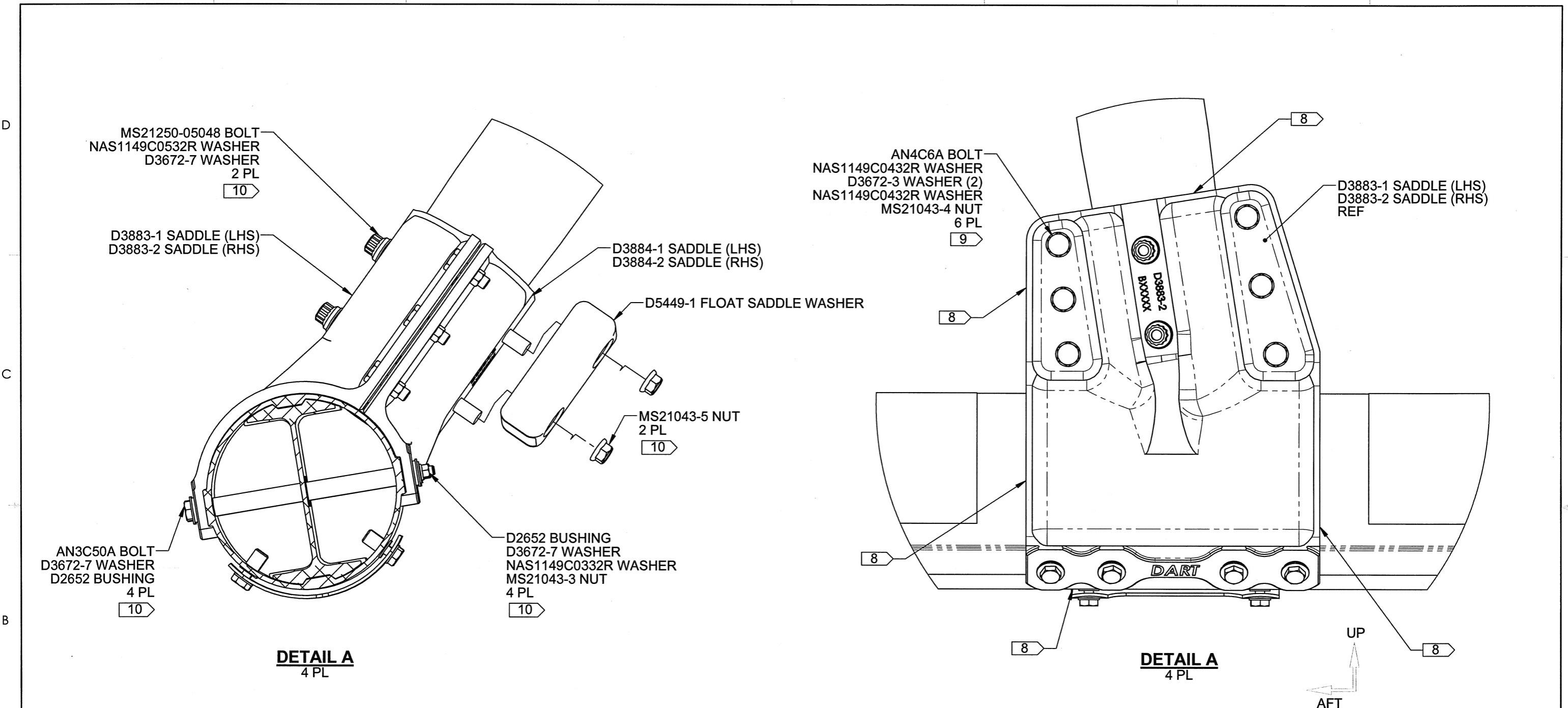
RELEASED

2019 MAY 07  
ECN 19-703

APPROVED

- NOTES:
- 1) MATERIAL: N/A
  - 2) FINISH: NONE
  - 3) TOLERANCES: N/A
  - 4) UNITS: N/A
  - 5) BREAK SHARP EDGES: N/A
  - 6) IDENTIFICATION: INSTALL D2729-4 RED DECAL IN LOCATION SHOWN
  - 7) WEIGHT: 150.3 LBS

|  |   |                             |          |
|--|---|-----------------------------|----------|
| C  | ADDED DETAIL E, PER CAR18-262   | MW                          | 18.10.01 |
| B  | ADDED D5449-1, REVISED D3672-7 TO QTY(40),<br>NAS1149C0532R TO QTY(8), REF NCR17-6698 | VS                          | 17.12.07 |
| A  | NEW ISSUE   | AP                          | 15.04.01 |
| REV.   | DESCRIPTION   |                             |          |
| DESIGN   | AP  | DART AEROSPACE LTD          |          |
| DRAWN  | MW  | HAWKESBURY, ONTARIO, CANADA |          |
| CHECKED  | ZF  | DRAWING NO.                 |          |
| MFG. APPR.   | JFS   | D119-796-033                |          |
| APPROVED   | NO  | REV. C                      |          |
| DE APPR.   | CP  | SHEET 1 OF 5                |          |
| DATE   | 18.10.01  | SCALE                       | NTS      |
| TITLE  |   |                             |          |
| FLOAT GEAR WITH REINFORCED WEARPLATES  |   |                             |          |
| COPYRIGHT © 2014 BY DART AEROSPACE LTD   |   |                             |          |
| THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS<br>NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT<br>WRITTEN PERMISSION FROM DART AEROSPACE LTD. |   |                             |          |

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: N/A
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A
- 8) APPLY A CONTINUOUS BEAD OF SIKAFLEX -241/-291 OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT IN THE LOCATIONS SHOWN INCLUDING THE FOLLOWING:
  - A) ALONG SADDLE/CROSSTUBE INTERFACE
  - B) BETWEEN THE SADDLE FLANGES
  - C) ALONG SADDLE/SKIDTUBE INTERFACE
- 9) LIGHTLY TIGHTEN ALL BOLTS IN THE NUMERICAL ORDER SPECIFIED ON SHEET 3, THEN TIGHTEN TO SPECIFIED TORQUE IN TABLE 1.
- 10) INSTALL WET WITH SIKAFLEX -241/-291 OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT
- 11) ALL NUTS TO BE INSTALLED ON THE INBOARD SIDE

**RELEASED**

2019 MAY 07 J

**APPROVED**

|            |          |  |
|------------|----------|--|
| DESIGN     | AP       | <b>DART AEROSPACE LTD</b><br>HAWKSLEY, ONTARIO, CANADA   |
| DRAWN      | MW       |  |
| CHECKED    | ZF       |  |
| MFG. APPR. | JFS      |  |
| APPROVED   | NO       |  |
| DE APPR.   | CP       | COPYRIGHT © 2014 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS<br>NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT<br>WRITTEN PERMISSION FROM DART AEROSPACE LTD. |
| DATE       | 18.10.01 | REV. C<br>SHEET 2 OF 5<br>SCALE<br>NTS   |

D

D

C

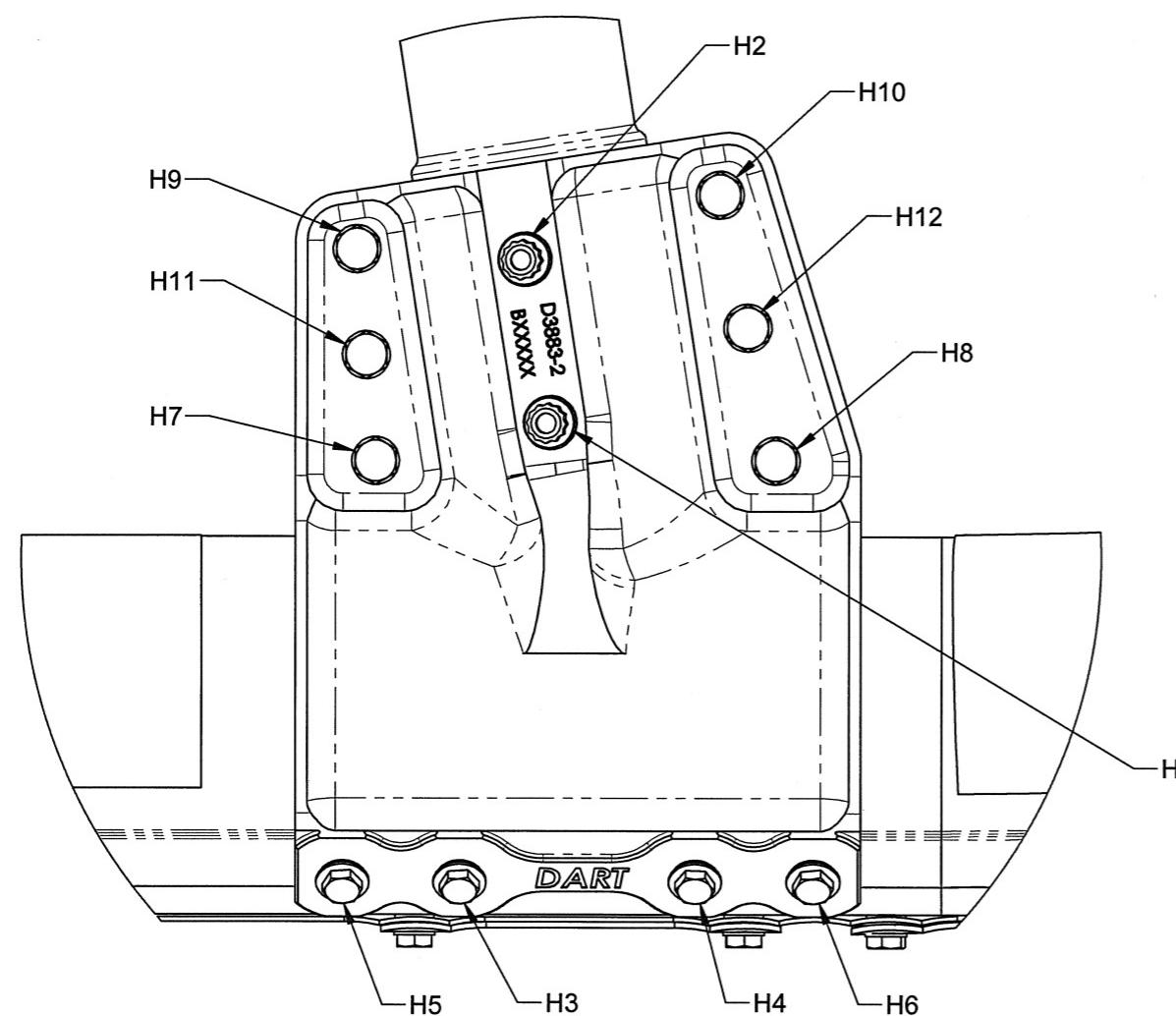
C

B

B

A

A



**DETAIL A- SUPPLEMENTAL VIEW - TORQUE SEQUENCE**

**TABLE 1: TORQUE SEQUENCE AND MAX TORQUE**

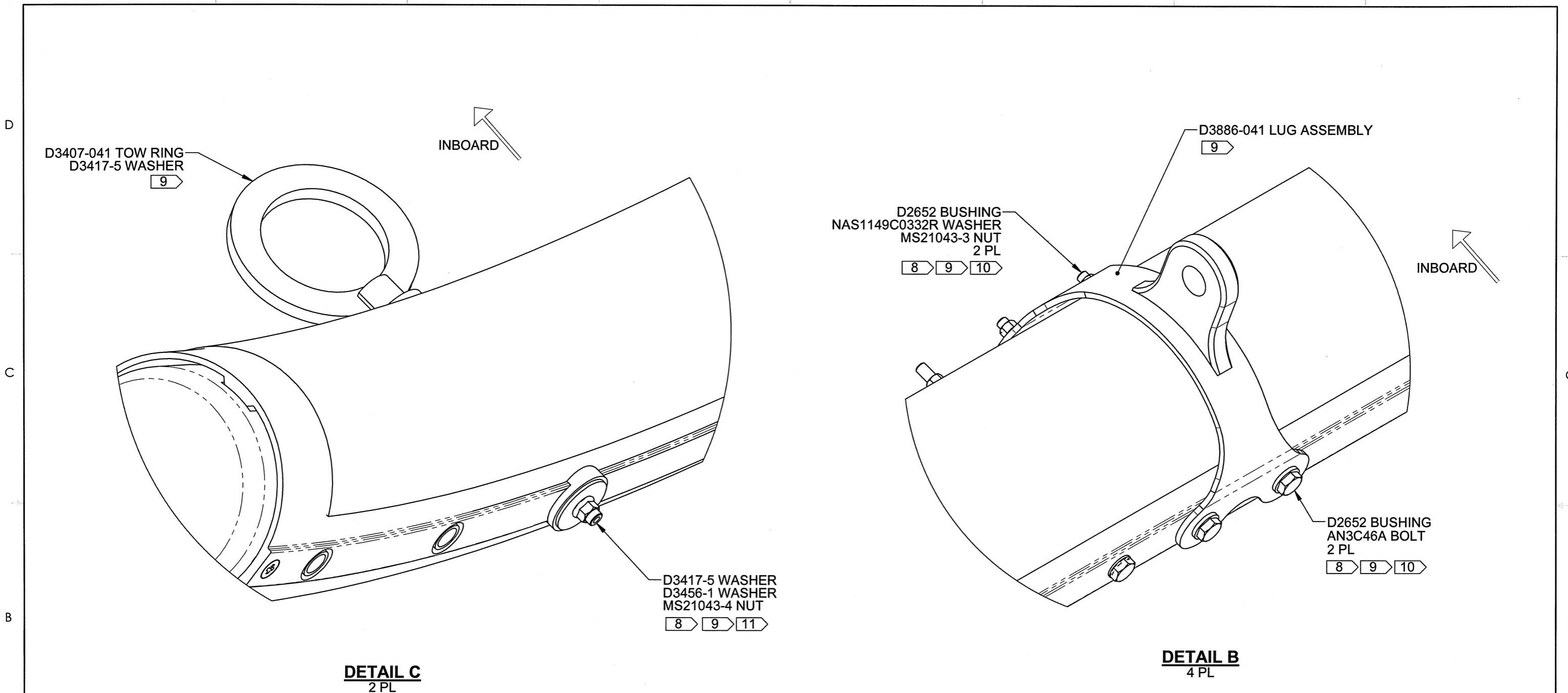
| TORQUE SEQUENCE | PART NUMBER   | TORQUE                       |
|-----------------|---------------|------------------------------|
| H1              | MS21250-05048 | 66-85 IN-LBS (7.3 - 9.6 N-m) |
| H2              | MS21250-05048 | 66-85 IN-LBS (7.3 - 9.6 N-m) |
| H3              | AN3C50A       | 15-25 IN-LBS (1.7 - 9.6 N-m) |
| H4              | AN3C50A       | 15-25 IN-LBS (1.7 - 9.6 N-m) |
| H5              | AN3C50A       | 15-25 IN-LBS (1.7 - 9.6 N-m) |
| H6              | AN3C50A       | 15-25 IN-LBS (1.7 - 9.6 N-m) |
| H7              | AN4C6A        | 50-70 IN-LBS (5.7 - 7.9 N-m) |
| H8              | AN4C6A        | 50-70 IN-LBS (5.7 - 7.9 N-m) |
| H9              | AN4C6A        | 50-70 IN-LBS (5.7 - 7.9 N-m) |
| H10             | AN4C6A        | 50-70 IN-LBS (5.7 - 7.9 N-m) |
| H11             | AN4C6A        | 50-70 IN-LBS (5.7 - 7.9 N-m) |
| H12             | AN4C6A        | 50-70 IN-LBS (5.7 - 7.9 N-m) |

**RELEASED**

2019 MAY 07 *wp*

**APPROVED**

|   |              |                             |
|---|--------------|-----------------------------|
| DESIGN  | AP           | <b>DART AEROSPACE LTD</b>   |
| DRAWN   | MW           | HAWKESBURY, ONTARIO, CANADA |
| CHECKED   | ZF           | DRAWING NO.                 |
| MFG. APPR.  | JFS          | <b>D119-796-033</b>         |
| APPROVED  | NO           | REV. C                      |
| DE APPR.  | CP <i>wp</i> | SHEET 3 OF 5                |
| DATE  | 18.10.01     | SCALE                       |
|   |              | NTS                         |
| COPYRIGHT © 2014 BY DART AEROSPACE LTD  |              |                             |
| THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS |              |                             |
| NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT          |              |                             |
| WRITTEN PERMISSION FROM DART AEROSPACE LTD.   |              |                             |



**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: N/A
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A
- 8) INSTALL WET WITH SIKAFLEX -241/-291 OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT
- 9) APPLY FAY SEAL AND FILLET SEAL USING SIKAFLEX -241/-291 OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT
- 10) TORQUE AN3 HARDWARE TO 20-25 IN-LBS
- 11) TORQUE AN4 HARDWARE TO 50-70 IN-LBS

RELEASED

2019 MAY 07 91

APPROVED

|            |          |
|------------|----------|
| DESIGN     | AP       |
| DRAWN      | MW       |
| CHECKED    | ZF       |
| MFG. APPR. | JFS      |
| APPROVED   | NO       |
| DE APPR.   | CP       |
| DATE       | 18.10.01 |

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

REV. C  
SHEET 4 OF 5

DRAWING NO.  
**D119-796-033**

SCALE  
NTS

TITLE  
FLOAT GEAR WITH REINFORCED WEARPLATES

COPYRIGHT © 2014 BY DART AEROSPACE LTD  
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS  
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT  
WRITTEN PERMISSION FROM DART AEROSPACE LTD.

D

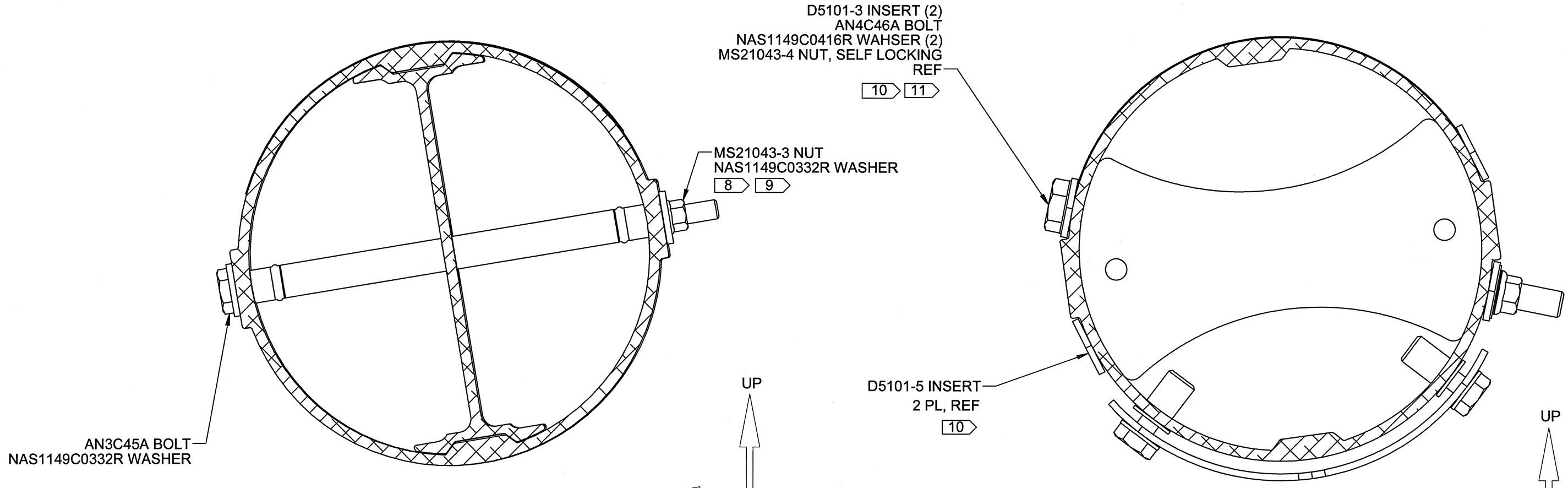
D

C

C

B

B



- NOTES:
- 1) MATERIAL: N/A
  - 2) FINISH: NONE
  - 3) TOLERANCES: N/A
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: N/A
  - 6) IDENTIFICATION: N/A
  - 7) WEIGHT: N/A
  - 8) LOOSELY INSTALL FASTENERS, DO NOT TORQUE
  - 9) INSTALL MS21043-3 NUT ON INBOARD SIDE OF SKIDTUBE
  - 10) PARTS INCLUDED IN D119-646-143, REORIENT AS SHOWN IF REQUIRED
  - 11) INSTALL MS21043-4 NUT ON INBOARD SIDE OF SKIDTUBE AS SHOWN



RELEASED

2019 MAY 07 *jp*

APPROVED

DATE 18.10.01

|            |              |   |
|------------|--------------|---|
| DESIGN     | AP           | DART AEROSPACE LTD  |
| DRAWN      | MW           | HAWKESBURY, ONTARIO, CANADA   |
| CHECKED    | ZF           |   |
| MFG. APPR. | JFS          | DRAWING NO.   |
| APPROVED   | NO           | D119-796-033  |
| DE APPR.   | CP <i>jp</i> | REV. C  |
| DATE       |              | SHEET 5 OF 5  |
|            |              | SCALE   |
|            |              | NTS   |
|            |              | TITLE   |
|            |              | FLOAT GEAR WITH REINFORCED WEARPLATES   |
|            |              | COPYRIGHT © 2014 BY DART AEROSPACE LTD  |
|            |              | THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS |
|            |              | NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT          |
|            |              | WRITTEN PERMISSION FROM DART AEROSPACE LTD.   |

A

A